file

UNITED STATES
ENVIRONMENTAL PROTECTION AGENCY
REGION I
5 POST OFFICE SQUARE – SUITE 100
BOSTON, MASSACHUSETTS 02109-3912

Certified Mail – Return Receipt Requested

SEP -5 2013

Richard Bates, Town Manager
101 Main Street
PO Box 10
Rockport, Maine 04856

Re: **Notice of Violation No. 2013–NOV-08**

The purpose of this Notice of Violation ("NOV") is to inform you that personnel from the United States Environmental Protection Agency ("EPA") have identified violations of the Clean Water Act ("CWA") within the Town of Rockport, Maine (the "Town").

At the request of the Town, EPA personnel planned and conducted a Clean Water Act inspection to sample flows within the Town's stormwater conveyance structures including road side ditches, separate storm sewer system catchbasins and culverts. On June 26, 2013, water quality samples were collected within the stormwater conveyance system of the Town from the following locations: within the Pascal Avenue drainage system (Goodie's Beach watershed), the Goose River, and along the surface water drainage path between Lilly Pond and Rockport Harbor. All sample locations eventually discharge into Rockport Harbor, part of the Atlantic Ocean. The samples were analyzed for a number of different water quality parameters, some of which can be used to distinguish between stormwater and non-stormwater discharges. The resulting data (summarized in Attachment 1) display elevated levels of Escherichia coli (E. coli), and Enterococcus bacteria.

According to rainfall data from the National Climatic Data Center's weather station (ID: US1MEKX0001) located in Rockport, Maine, 0.28 inches of precipitation was recorded on June 26th, 2013 prior to observation and sampling of flows from within the stormwater conveyance system. Prior to this rainfall event, the only rainfall that was recorded during the preceding week of June 19 - 25, 2013 was a combined total of 0.12 inches on June 23, 2013, and June 24, 2013.

The discharges from sample locations within catchbasins PA-3A and PA-3B (located at the intersection of Pascal Avenue and Pine Street) as well as the point directly downstream of them (PA-3) were found to contain selected pharmaceutical compounds. The presence of the specific pharmaceutical compounds in these samples provides

evidence that the sources of the bacterial contamination within the samples are of human origin and due to the presence of sanitary sewage.

Points PA-3A, PA-3B and PA-3 lie along the same flow path that discharges into Rockport Harbor at Goodie's Beach (sample location PA-1) via an above ground swale and a culverted pipe. Rockport Harbor (Waterbody ID 722-21) is a class SB marine water [1] impaired by bacteria[2]. Class SB waters are designated as suitable for human recreation in and on the water and for the propagation and harvesting of shellfish (MRSA 38 Chapter 3, §465).

EPA inspectors discussed the sampling event with Town officials during the out-briefing of the June 26, 2013 compliance sampling inspection. The Town officials stated that the sample results would most likely help refine their illicit discharge detection and elimination investigations.

The Town's discharges violate Section 301 of the CWA, 33 U.S.C. § 1311. It is the responsibility of the Town to maintain compliance with the CWA. **Within thirty (30) days of the date of receipt of this NOV**, pursuant to Section 308 of the CWA, 33 U.S.C § 1318, please submit to the contact person listed below a Statement describing the following: (1) any corrective actions that have been implemented, and, for all violations not yet corrected; (2) a description of the actions that will be taken to correct the violation(s), and (3) a schedule for their implementation.

This NOV may not specify all violations of the CWA or violations of other environmental requirements that may exist in the Town. This NOV does not preclude the EPA or any other agency from commencing any enforcement action regarding any such violations. It is your responsibility to comply with all legal requirements, whether or not the EPA notifies you of any violations or takes enforcement action against you. Nothing in this NOV relieves you of other obligations under applicable federal, state, and local law. Failure to comply with the CWA may result in your liability for administrative, civil, or criminal penalties under Section 309(c), (d), or (g) of the CWA, 33 U.S.C. § 1319(c), (d), or (g), as modified by 40 C.F.R. Part 19. No provision of this NOV and no action or inaction by EPA shall be construed to constitute an assurance by the EPA that actions you take to address the violation(s) specified herein will result in compliance.

---

[1] Maine Revised Statutes. Title 38 MRSA Ch. 3 Part 465-B –Water Classification Program Available at: http://www.mainelegislature.org/legis/statutes/38/title38sec465-B.html

[2] MEDEP 2009. Maine Statewide Bacteria TMDL (Total Maximum Daily Loads). DEPLW 1002. Augusta, ME. 49pp. Available at: http://ofmpub.epa.gov/waters10/attains_impaired_waters.show_tmdl_document?p_tmdl_doc_blobs_id=60441 http://www.state.me.us/dep/water/monitoring/305b/2010/report.pdf.

Please refer any questions regarding this NOV to:

U.S. Environmental Protection Agency, Region 1
5 Post Office Square – Suite 100
Water Technical Unit
Mail Code OES04-1
Boston, MA 02109-3912
Attn: Alex Rosenberg
617-918-1709

Sincerely,

Susan Studlien, Director
Office of Environmental Stewardship
Environmental Protection Agency, Region 1

cc: Pamela Parker, MEDEP (electronic mail only)
Stephen Beveridge, Town of Rockport DPW Director

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION I

DATE: August 5, 2013

SUBJ: MS4 Compliance Sampling Inspection
Town of Rockport, Maine

FROM: Erin Trainor, Inspector E. T. Trainor 8/5/2013

TO: File

REVIEWED BY: Alex Rosenberg 8/1/13

REQUESTED BY: Alex Rosenberg, OES

I. Background Information

A. Date, Time of inspection: Wednesday, June 26, 2013, 8:00 AM

B. Weather Conditions: Early morning fog, late morning sun, approximately 70 degrees F

C. USEPA Representatives: Erin Trainor
Alex Rosenberg

D. Site Representative(s): Mike Young
Town of Rockport
Assistant Public Works Director

Ted Skowronski
Town of Rockport
Conservation Commission

E. Address: Various locations along Pascal Ave. drainage system, Goodies Beach, Rockport Harbor, Goose River, and Lilly Pond.

II. Purpose of Inspection

The purpose of the inspection was to assist the Town of Rockport to determine whether the source of elevated bacteria levels contributing to frequent beach closures of Goodies Beach can be attributed to a human source. Samples were collected from thirteen (13) stormwater outfalls,

manholes, culverts and/or beach grabs in accordance with the Environmental Investigations and Analysis (EIA) unit Stormwater Program Plan.

III. Description of Sampling Locations

- Beach grab sample collected from Goodies Beach, identified as GB-1.
- Outfall located at Goodies Beach which discharges the Pascal Ave. drainage into Rockport Harbor, identified as PA-1.
- In-stream sample located along Goose River prior to entering Rockport Harbor, upstream of the bridge crossing, identified as GR-1.
- In-stream sample located along Lilly Pond drainage prior to entering Rockport Harbor, identified as LP-1.
- In-stream sample located along Winter Street, upstream of Mechanic Street crossing, identified as WS-1.
- Outfall which directs drainage from the west side of Pascal Ave. and to outfall PA-1, identified as PA-3.
- Outfall which directs drainage from the south side of Pascal Ave. and to outfall PA-1, identified as PA-4.
- Catch basin on east side of Pascal Ave. at the corner of Ship Street and Pascal Ave. which flows towards PA-4, identified as PA-4A.
- Catch basin on the west side of Pascal Ave. between Pleasant Street and West Street, which flows towards PA-4A, identified as PA-4B.
- Catch basin on the west side of Pascal Ave. at the corner of Pine Street and Pascal Ave., which flows towards PA-3B, identified as PA-3A.
- Catch basin on the west side of Pascal Ave. approximately 50 feet to the northeast of PA-3A which flows towards PA-3, identified as PA-3B.
- Culvert from wetland area which flows towards PA-4B, identified at PA-5.
- Culvert into wetland area, identified at PA-6.

IV. Inspection Observations and Findings

On Wednesday June 26, 2013, EPA inspectors Alex Rosenberg, and Erin Trainor conducted a Compliance Sampling Inspection (CSI) within the Town of Rockport, Maine at thirteen (13) locations along Pascal Ave. drainage system, Goodies Beach, Rockport Harbor, Goose River, and Lilly Pond.

The inspection started in Rockport at approximately 8:00 AM. At the time of the inspection, the weather was foggy turning to sunny, and approximately 70 degrees Fahrenheit. According to weather underground, approximately 3/4 inch of rain was reported within 24 hours of the inspection at the closest weather station located in Rockland, Maine.

The sampling locations described in Section III were field screened using test kits for ammonia, chlorine, and surfactants and analyzed for E.Coli and Enterococcus at Nelson Analytical located in Kennebunk, Maine, and pharmaceutical and personal care products (PPCPs) including: Atenolol, Acetaminophen, Cotinine, 1,7-Dimethylxanthine, Caffeine, Carbamazepine, and Metoprolol at the EPA New England Regional Laboratory (NERL). In-situ measurements for

conductivity, salinity, and temperature were also recorded. The following table summarizes the findings. Photographs are included.

End of Report

Attachments: Table 1: Summary of Rockport, ME MS4 Inspection – June 26, 2013

Photographs

Table 1: Summary of Rockport, ME MS4 Inspection -- June 26, 2013

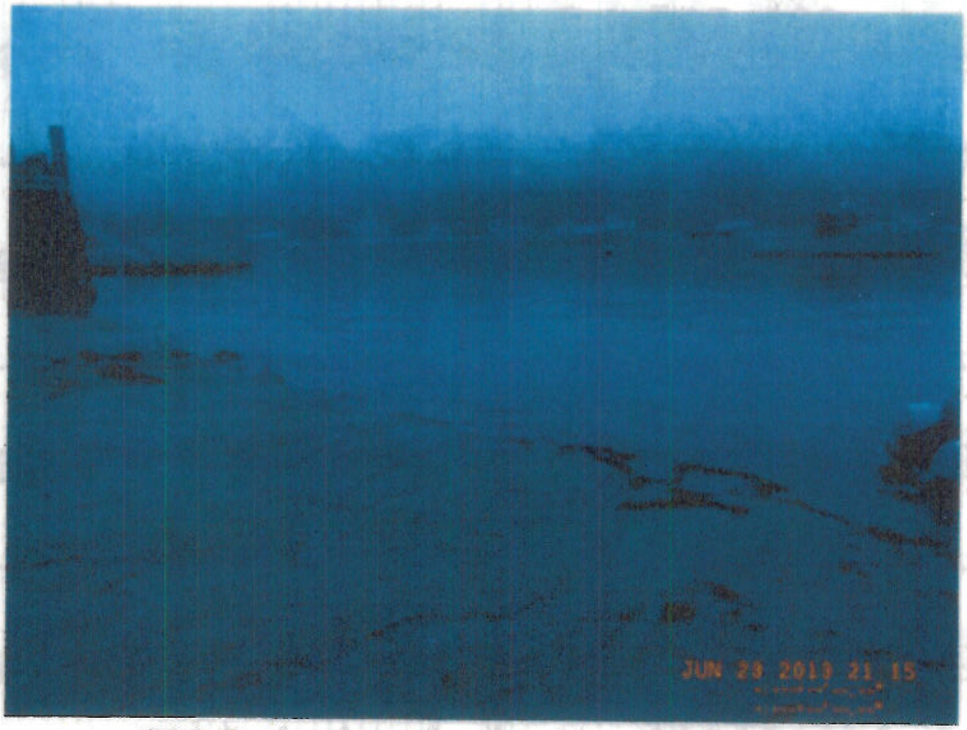
Sample ID	GB-1	PA-1	GR-1	LP-1	WS-1	PA-3
Time	08:30	08:35	08:55	09:30	09:45	10:05
Latitude/Longitude	44.18523085 N, 69.07425081 W	44.18511328 N, 69.07433481 W	44.18829829 N, 69.07513962 W	44.18683391 N, 69.071159 W	44.185795 N, 69.06998082 W	44.18508891 N, 69.075771 W
Description of Location	Beach grab sample collected from Goodies Beach.	Outfall located at Goodies Beach which discharges the Pascal Ave. drainage into Rockport Harbor.	In-stream sample located along Goose River prior to entering Rockport Harbor, upstream of the bridge crossing.	In-stream sample located along Lilly Pond drainage prior to entering Rockport Harbor.	In-stream sample located along Winter Street, upstream of Mechanic Street crossing.	Outfall which directs drainage from the west side of Pascal Ave. and to outfall PA-1.
Physical Observations	Sample collected from knee deep water.	Approx. flow 7-10 GPM.	Approx. flow >1000 GPM.	Approx. flow 150 GPM.		Drip from outfall.
Temperature, °C	17.7	16.0	22.0	21.2	16.3	21.5
Specific Conductivity, µS	27.4 (mS)	705	187	568	531	108.9
Salinity, ppt	16.3	0.1	0.1	0.3	0.3	0.0
Ammonia, mg/L	NA	0	0	0	0	0-0.25
Chlorine, mg/L	NA	0.05	0.04	0.09	NA	0.07
Surfactants, mg/L	NA	0.2	0.10	0.1	0.10	0.5
Atenolol, ng/l	ND	ND	ND	1.3	ND	ND
Acetaminophen, ng/l	1.4	ND	ND	1.0	3.2	11
Cotinine, ng/l	0.67	2.3	1.4	1.4	2.6	13
1,7-Dimethylxanthine, ng/l	ND	2.7	3.4	5.2	2.2	5.5
Caffeine, ng/l	16	17	17	22	26	23
Carbamazepine, ng/l	0.29	1.2	ND	ND	ND	0.61
Metoprolol, ng/l	ND	ND	ND	ND	ND	ND
E.Coli, MPN/100ml	63	1,203	556	78	1,553	727
Enterococcus, MPN/100ml	1,723	1,782	323	187	355	1,162

NA: Not analyzed ND: Not detected above reporting limit GPM: gallons per minute *: Qualified data, refer to laboratory report

Table 1: Summary of Rockport, ME MS4 Inspection – June 26, 2013, continued

Sample ID	PA-4	PA-4A	PA-4B	PA-3A	PA-3B	PA-5	PA-6
Time	10:10	10:53	10:45	11:10	11:18	11:40	11:55
Latitude/Longitude	44.18504771 N, 69.0757965 W	44.18440416 N, 69.07655121 W	44.18436461 N, 69.07678771 W	44.18506502 N, 69.0760977	44.18518967 N, 69.07598675 W	44.18458015 N, 69.07742135 W	44.18488954 N, 69.07779042 W
Description of Location	Outfall which directs drainage from the south side of Pascal Ave. and to outfall PA-1.	Catch basin on east side of Pascal Ave. at the corner of Ship Street and Pascal Ave. which flows towards PA-4.	Catch basin on the west side of Pascal Ave. between Pleasant Street and West Street, which flows towards PA-4A.	Catch basin on the west side of Pascal Ave. at the corner of Pine Street and Pascal Ave., which flows towards PA-3B.	Catch basin on the west side of Pascal Ave. approximately 50 feet to the northeast of PA-3A which flows towards PA-3.	Culvert from wetland area which flows towards PA-4B.	Culvert into wetland area which receives pumped drainage from catch basin at corner of Amesbury and Pleasant Street
Physical Observations	Suds observed.	Flow from PA-4B.	Flow approx. 100 GPM. Suds observed.	Low flow.	Low flow.	Flow approx 100 GPM. Duplicate sample collected.	12" corrugated plastic culvert. Partially submerged. No flow.
Temperature, °C	18.7	20.8	21.2	20.6	20.2	22.3	23.4
Specific Conductivity, µS	502	509	502	65	55.8	512	748
Salinity, ppt	0.2	0.2	0.2	0.2	0.0	0.2	0.4
Ammonia, mg/L	0	0	0	0	0	0	0
Chlorine, mg/L	0.13	0.06	0.09	0.07	0	0.07	0.11
Surfactants, mg/L	0.1	0.1	0.2	0.3	0.3	0.2	0.25
Atenolol, ng/l	ND	ND	ND	ND	ND	ND	ND
Acetaminophen, ng/l	ND	ND	ND	34	24	ND	6.8
Cotinine, ng/l	0.93	0.88	1.0	7.8	23	0.82	6.3
1,7-Dimethylxanthine, ng/l	4.0	2.5	ND	8.4	7.5	3.0	11
Caffeine, ng/l	6.1	10	7.5	44	32	12	16
Carbamazepine, ng/l	0.76	1.1	0.79	0.36	ND	0.91	1.7
Metoprolol, ng/l	ND	ND	ND	ND	ND	ND	ND
E.Coli, MPN/100ml	109	166	57	2,420	2,613	78	41
Enterococcus, MPN/100ml	2,098	272	181	10,462	12,033	35,041	585

NA: Not analyzed ND: Not detected above reporting limit GPM: gallons per minute *: Qualified data, refer to laboratory report



GB-1: Beach grab sample collected from Goodies Beach.

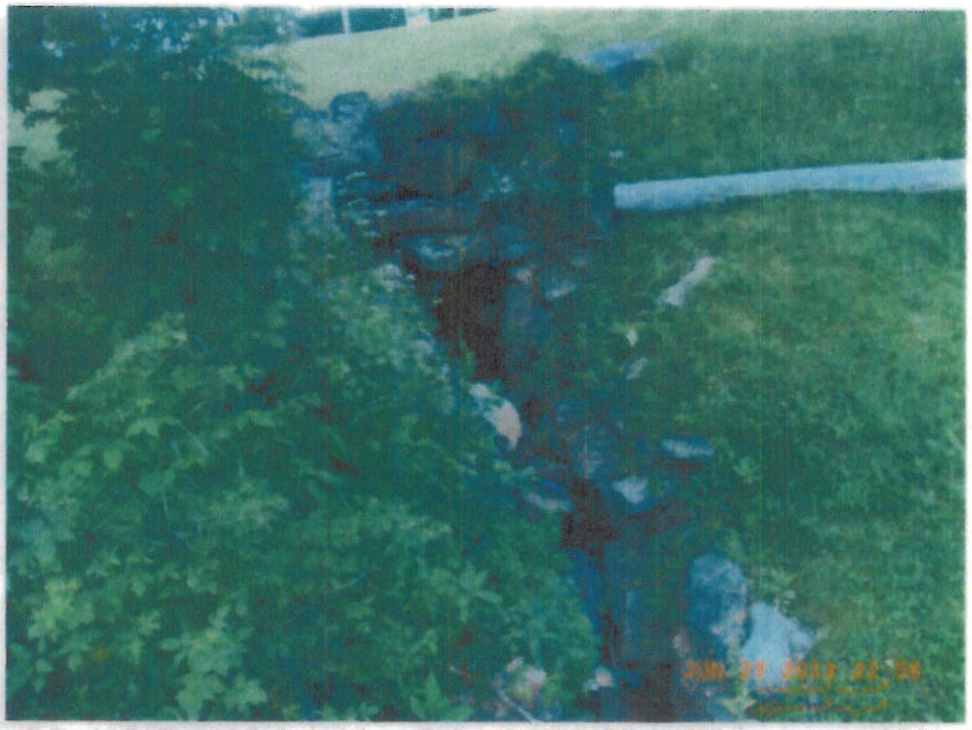
PA-1: Outfall located at Goodies Beach which discharges the Pascal Ave. drainage into Rockport Harbor.

GR-1: In-stream sample located along Goose River prior to entering Rockport Harbor, upstream of the bridge crossing.

LP-1: In-stream sample located along Lilly Pond drainage prior to entering Rockport Harbor.

WS-1: In-stream sample located along Winter Street, upstream of Mechanic Street crossing.

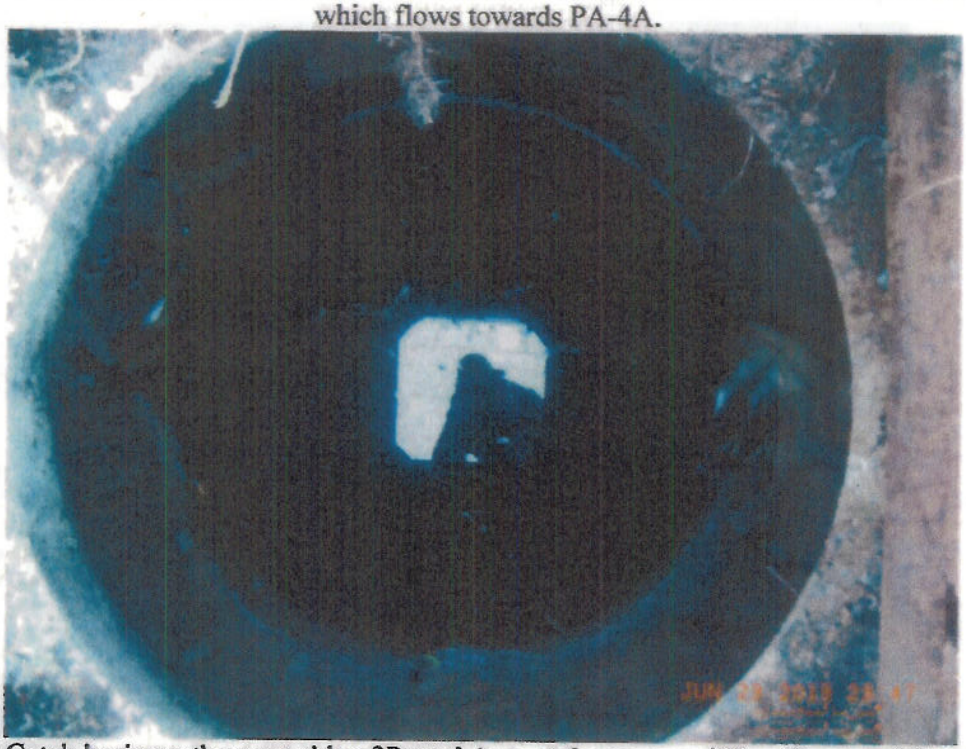
PA-3: Outfall which directs drainage from the west side of Pascal Ave. and to outfall PA-1.



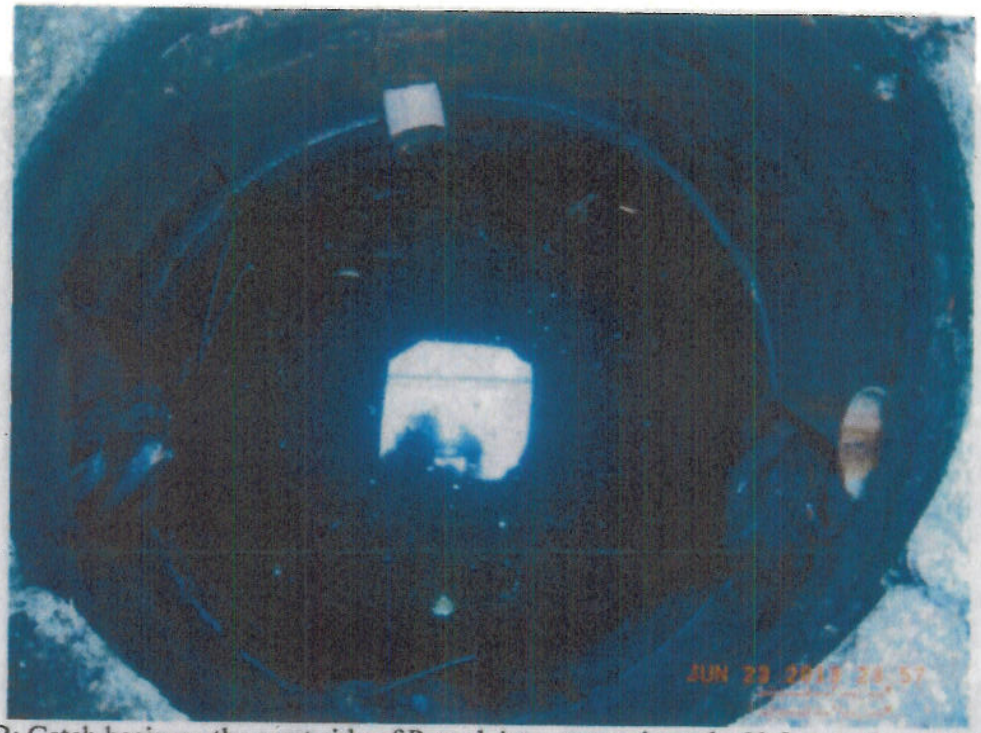
PA-4: Outfall which directs drainage from the south side of Pascal Ave. and to outfall PA-1.

PA-4A: Catch basin on east side of Pascal Ave. at the corner of Ship Street and Pascal Ave. which flows towards PA-4.

PA-4B: Catch basin on the west side of Pascal Ave. between Pleasant Street and West Street, which flows towards PA-4A.



PA-3A: Catch basin on the west side of Pascal Ave. at the corner of Pine Street and Pascal Ave., which flows towards PA-3B.



PA-3B: Catch basin on the west side of Pascal Ave. approximately 50 feet to the northeast of PA-3A which flows towards PA-3.

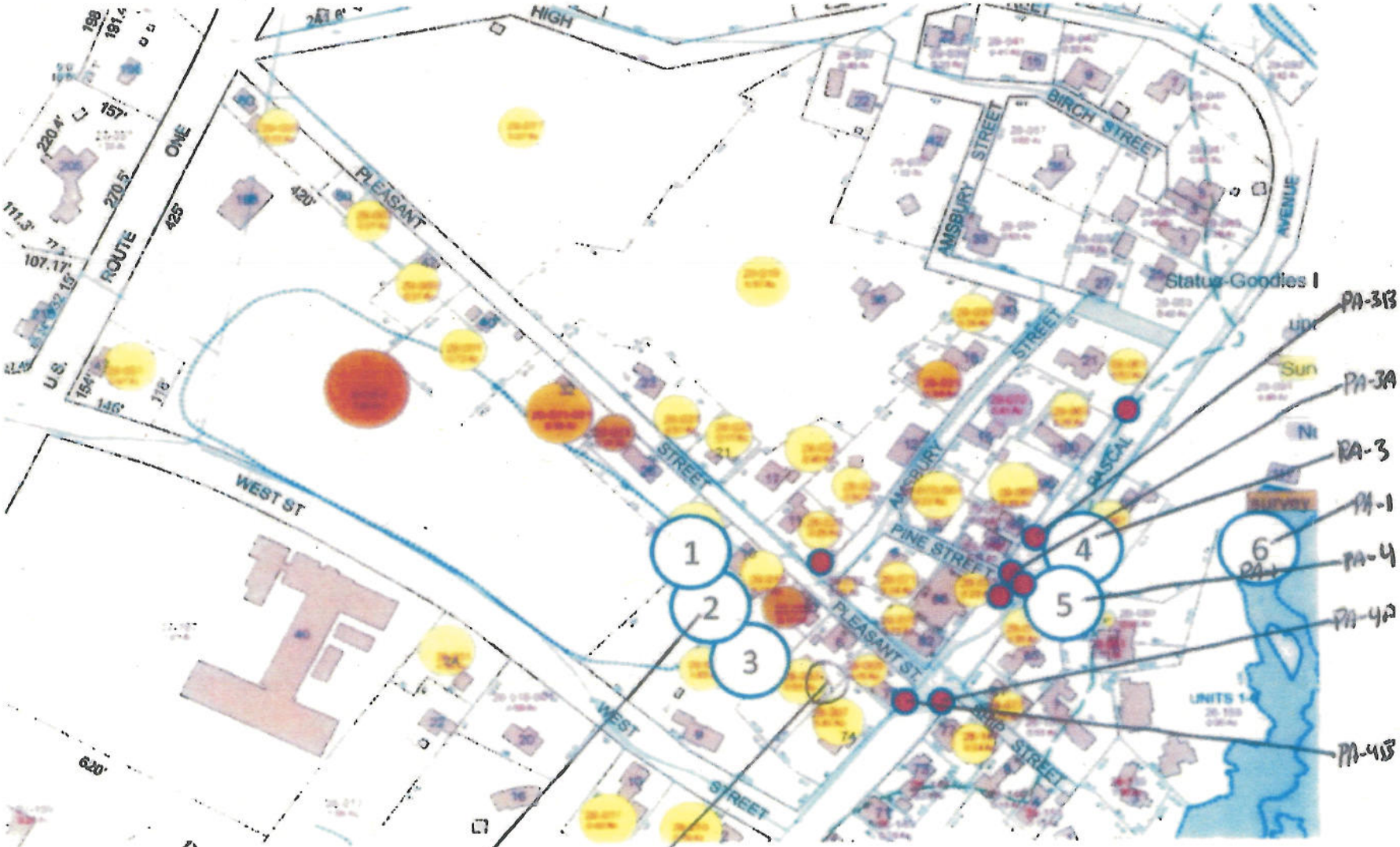
PA-5: Culvert from wetland area which flows towards PA-4B.

June 26, 2013 Sampling Locations

GR-1 Goose River
LP-1 Lily Pond
WS-1 Winter Street
PA-6 Pascal Avenue

8/26/13 Sample location and Nomenclature

Storm Water Catch Basin= ●



EPA Region 1
Clean Water Act
Inspection Data Entry Form: 3560EZ

Inspector:	Erin Trainor	Date form completed:	7/1/2013

Section A: Facility Information						
Inspection start date:	6/26/2013	Inspection end date (if more than one day):	6/26/2013			
NPDES ID:	Enter text	Federal facility?	No			
Name and Location of Facility Inspected:						
Name:	Town of Rockport					
Address:	Enter text					
City:	Rockport	State:	ME	ZIP:	04856	
Facility On-Site Representative #1:						
Name:	Mike Young					
Title:	Assistant Public Works Director					
Phone #:	207 236-6245	Fax # / email:	assistantpwd@town rockport me.us			
Facility On-Site Representative #2 (if necessary):						
Name:	Ted Skowronski					
Title:	Enter text					
Phone #:	207-596-7230	Fax # / email:	tskowronski@roadrunner.com			

Section B: Compliance Monitoring Information		
Clean Water Act Section (choose from only one of the following):		
	CWA §308[A][B]: NPDES	Stormwater - MS4
	CWA §311: Oil and Hazardous Substances	Choose an item
	CWA §404: Permits for Dredge and Fill Material	Choose an item
Compliance Monitoring Type:		Inspection w/ Sampling
Compliance Monitoring Reason:		Agency Priority
If Agency Priority, then specify priority(s):		

OECA - CAFO	☐
OECA - CAFO Region Initiative Areas	☐
OECA - CSOs w/ < 50,000 service population	☐
OECA - CSOs w/ >= 50,000 service population	☐
OECA - MS4s Phase I	☐
OECA - MS4s Phase II	☐
Region 1 - Environmental Justice	☐
Region 1 - Green Economy / Green Infrastructure	☐
Region 1 - Industrial Laundries	☐
Region 1 - Lead Poisoning	☐
Region 1 - Municipal Infrastructure	☐
Region 1 - Pollution Prevention & Resource Conservation	☐

Region 1 - Ship / Boat Yards	☐
Region 1 - Wet Weather	☐

Compliance Monitoring Agency Type:	EPA
Was this a Joint Compliance Monitoring Activity?	No
Which party had the lead?	Choose an item or leave blank if N/A
If State lead, what was the purpose of EPA participation?	Choose an item or leave blank if N/A

Section C: ICDS Information	
Did you observe deficiencies (potential violations) during the inspection?	Yes
Potential excess emission in violation of regulations:	☐
Potential failure to… … complete or submit a notification, report, certification, or manifest:	☐
… follow a permit condition(s):	☐
… follow a required sample monitoring procedure or laboratory procedure:	☐
… follow or develop a required management practice or procedure:	☐
… identify and manage a regulated waste or pollutant in any media:	☒
… maintain a record or failure to disclose a document:	☐
… maintain/inspect/repair meters, sensors, and recording equipment:	☐
… obtain a permit, product approval, or certification:	☐
… report regulated events such as spills, accidents, etc.:	☐
Potential incorrect use of a material (pesticide, waste, product) or use of an unapproved material:	☐
Potential violation of a compliance schedule in an enforceable order:	☐
If you observed deficiencies, did you communicate the deficiencies to the Facility during the inspection?	No
If yes, did you observe the Facility take any actions during the inspection to address the deficiencies noted?	No
If yes, what actions were taken?	Choose an item
If the Facility reduced pollution, what pollutant was reduced?	Enter text
Did you provide general compliance assistance in accordance with the policy on the role of the EPA inspector in providing compliance assistance during inspections?	No
Did you provide site-specific compliance assistance in accordance with the policy on the role of the EPA inspector in providing compliance assistance during inspections?	No

Comments:

The town has identified bacteria in excess of water quality standards at Goodies Beach. The sampling effort was made to help identify a source of contamination.

EPA Region 1
Clean Water Act
Inspection Data Entry Form: 3560EZ

Inspector:	Alex Rosenberg	Date form completed:	7/1/2013

Section A: Facility Information						
Inspection start date:	6/20/2013	Inspection end date (if more than one day):	6/20/2013			
NPDES ID:	Enter text	Federal facility?	No			
Name and Location of Facility Inspected:						
Name:	City of Rockport					
Address:	Enter text					
City:	Rockport	State:	ME	ZIP:	04856	
Facility On-Site Representative #1:						
Name:	Mike Young					
Title:	Assistant Public Works Director					
Phone #:	207 236-6245	Fax # / email:	assistantpwd@town rockport me.us			
Facility On-Site Representative #2 (if necessary):						
Name:	Bob Kennedy					
Title:	limnologist					
Phone #:	207-701-7010	Fax # / email:	bobkennedy@email.com			

Section B: Compliance Monitoring Information		
Clean Water Act Section (choose from only one of the following):		
	CWA §308[A][B]: NPDES	Sanitary Sewer Overflows
	CWA §311: Oil and Hazardous Substances	Choose an item
	CWA §404: Permits for Dredge and Fill Material	Choose an item
Compliance Monitoring Type:		Reconnaissance
Compliance Monitoring Reason:		Core Program
	If Agency Priority, then specify priority(s):	

OECA - CAFO	☐
OECA - CAFO Region Initiative Areas	☐
OECA - CSOs w/ < 50,000 service population	☐
OECA - CSOs w/ >= 50,000 service population	☐
OECA - MS4s Phase I	☐
OECA - MS4s Phase II	☐
Region 1 - Environmental Justice	☐
Region 1 - Green Economy / Green Infrastructure	☐
Region 1 - Industrial Laundries	☐
Region 1 - Lead Poisoning	☐
Region 1 - Municipal Infrastructure	☐
Region 1 - Pollution Prevention & Resource Conservation	☐

	Region 1 - Ship / Boat Yards	☐
	Region 1 - Wet Weather	☐
Compliance Monitoring Agency Type:		EPA
Was this a Joint Compliance Monitoring Activity?		No
	Which party had the lead?	Choose an item or leave blank if N/A
	If State lead, what was the purpose of EPA participation?	Choose an item or leave blank if N/A

Section C: ICDS Information		
Did you observe deficiencies (potential violations) during the inspection?		No
	Potential excess emission in violation of regulations:	☐
	Potential failure to… … complete or submit a notification, report, certification, or manifest:	☐
	… follow a permit condition(s):	☐
	… follow a required sample monitoring procedure or laboratory procedure:	☐
	… follow or develop a required management practice or procedure:	☒
	… identify and manage a regulated waste or pollutant in any media:	☒
	… maintain a record or failure to disclose a document:	☐
	… maintain/inspect/repair meters, sensors, and recording equipment:	☐
	… obtain a permit, product approval, or certification:	☐
	… report regulated events such as spills, accidents, etc.:	☐
	Potential incorrect use of a material (pesticide, waste, product) or use of an unapproved material:	☐
	Potential violation of a compliance schedule in an enforceable order:	☐
If you observed deficiencies, did you communicate the deficiencies to the Facility during the inspection?		No
	If yes, did you observe the Facility take any actions during the inspection to address the deficiencies noted?	No
	If yes, what actions were taken?	Choose an item
	If the Facility reduced pollution, what pollutant was reduced?	Enter text
Did you provide general compliance assistance in accordance with the policy on the role of the EPA inspector in providing compliance assistance during inspections?		No
Did you provide site-specific compliance assistance in accordance with the policy on the role of the EPA inspector in providing compliance assistance during inspections?		No

Comments:

Did not contact city about recon. Plan is now to sample in two weeks after coordinating with the lab.

United States Environmental Protection Agency
Region I - EPA New England
5 Post Office Square
Boston, MA 02109-3912

Confidential/FOIA Exempt/Attorney Client Privilege

Subj: Inspection Field Notes
Town of Camden (Rockport's Collection System – CSI Recon)

From: Alex Rosenberg

Drafted Date: 7/1/13
Finalized Date: 8/1/13
Reviewed By: Erin Trainor
Reviewed Date: 7/3/2013

To: File

I. Facility Information

A. Facility Name: Town of Camden (Rockport's Collection System)

B. Facility Location: Pascal Avenue Drainage in Rockport

C. Facility Contacts: Mike Young, Assistant Public Works Director Rockport
Bob Kennedy, citizen of Rockport - limnologist

D. Contact Mailing Address: Rockport DPW
1 Elmwood Avenue
PO Box 10
Rockport, ME 04856

E. Permit Number: ME0100137 (Town of Camden – WPCF)

II. Background Information

A. Date of inspection: June 20, 2013 - June 20, 2013

B. Weather Conditions: Sunny

C. US EPA Representative(s): Alex Rosenberg

D. State/Local Representative(s): none

E. Previous Enforcement Actions: none

III Purpose of Inspection

The purpose of the inspection was to conduct a reconnaissance of the proposed source tracking sampling locations within the Pascal Avenue drainage area into Rockport Harbor. The points were proposed by a local Rockport resident, Bob Kennedy, who has been conducting studies of the Rockport Harbor water quality for many years.

Last year EPA conducted source tracking sampling work at two points that discharge into the Harbor. Verification of this data for purposes of eliminating any potential illicit discharges is also a purpose of this inspection.

IV Facility Description

The Town of Rockport's (the "Town") sewer collection system is owned and operated by the town, but the discharge out of it travels to either the Camden wastewater treatment plant or the Town of Rockland's wastewater treatment plant.

The Pascal Avenue drainage area collects road surface runoff, foundation drains as well as drainage out of an area of wetland located between Pleasant St (to the north), West St. (to the south), Route 1 (to the west) and Pascal Avenue (to the East). Two mini-watersheds were identified within the Pascal Avenue drainage area ("drainage area") and are the two sole contributors to discharges at an outfall pipe located at Goodies' Beach (sample point PA-1).

The two watersheds are defined by both surficial topography and connectivity of subsurface stormwater conveyances. These boundaries were truth tested in the field during the inspection.

Bob Kennedy explained that tides exchange 40% of the Rockport Harbor with each of their cycles. The Goose River contributes, at maximum flow, 5% of the Harbor's volume.

V. Inspection

An opening meeting was held between EPA inspector Alex Rosenberg and the towns DPW director – Steve, who is retiring shortly, Mike Young – the assistant DPW director who will be taking over Steve's position, Ted – from the conservation committee, Bob Kennedy – a volunteer water quality expert who lives in Rockport, and one other town official who did not participate very much in the discussion.

Details about the town's collection system and past investigations that have been conducted were all explained as follows:

The sanitary sewer collection system in the Town is very new and is all PVC pipe. Sanitary waste from the Pascal Avenue drainage area is pumped via a series of two pump stations (the Harbor View Pump Station – that accepts waste from the Seat St. Pump station and drainage area, the Maine (Goose River) Pump Station).

The Town conducted a sanitary survey within the drainage area of the approximately 47 homes in the drainage area. Of these homes 3 homes were found to be unoccupied and were therefore unable to be entered. The Town has subsequently gained access to one or two of these properties. The Town's code enforcement officer conducted the surveys but was unavailable to be interviewed directly during the inspection.

Ted, the Town's conservation committee representative did join a majority of the sanitary sewer inspections and was able to explain that an inspection consisted of a visual cataloging of bathrooms and basement plumbing fixtures. There are no known septic systems in the drainage area.

The Town permits homes to have foundation drains that discharge to the stormwater separate sewer system. Town officials explained that foundation and basement flooding is a large problem because of the steep gradients along the bedrock walls that surround the perimeter of the harbor. The bedrock (or 'ledge') causes groundwater to be pushed towards the surface. Town officials said that almost all houses have foundation drains.

Mini-watershed 1: Northern section of Pleasant St. past intersection with Amesbury St, northwester side of Amesbury St, the wetland south of Pleasant St, and the south side of Pascal Avenue.

Stormwater drainage from Amesbury St travels through a catchbasin and into a pipe that crosses under the Hall's property (property #10 on Town maps). A few years back the Hall's complained about stormwater in their basement. For the Town to gain easement rights to build the pipe through their property they agreed to build a small pump station to distance the pipe's outlet from their basement. This work was complete recently and the pipe now discharges into the wetland (called sample pt PA-6 from follow-up CSI).

Water then discharges from the wetland via a day-lit stream that runs through three backyards and past sample location PA-5 before entering a subsurface pipe. Town officials explained the pipe is original (never has been replaced) and is expected to be highly leaky.

Flow was observed flowing out the pipe where it inlets into a stormwater catch basin on Pascal Avenue's north side (sample point PA-4B). This catchbasin then flows to the catchbasin across the street (PA-4A) and along the south side of Pascal Avenue to where it daylights at PA-4.

PA-4 joins runoff from PA-3 and travels above ground approximately 80 feet before entering a final pipe that runs below an old wastewater treatment facility for a near-by condominium. The pipe outlets at Goodie's beach (sample point PA-1).

The wasetewater treatment facility has been decommissioned many years ago and the DPW staff said that the facility is now so clean they would eat off the floor. The group was unable to enter the facility during the inspection for lack of having the right key.

Mini-watershed 2: The smaller of the two mini-watersheds in the drainage area collects stormwater from a high point on Pascal Avenue approximately 150 yards to the north

through a series of separate stormwater catchbasins. One catchbasin on top of the hill flows south to the catchbasin called sample PA-3B. Two other catchbasins to the south of PA-3B (the nearest of which is sample point PA-3A) collect water from the Pine Street block and some areas of Pascal Avenue. These catchbasins all flow into PA-3B before entering a culvert underneath Pascal Avenue and daylighting through PA-3.

According to Town officials, they have recently dye tested between the pump stations of the city. During these tests sanitary sewer manholes were opened to observe that dye indeed passed through these locations as it was expected would happen. No observations were made inside the stormwater separate collection system at that time.

VI. Follow-up Activities

A compliance sampling inspection was conducted on June 26, 2013 based on a sampling plan that was created using data and observations obtained during the June 20, 2013 recon inspection. Data will be analyzed to help the City determine its next steps.

Sample map from 6/26/13 shown on next page.

EPA Region 1
Clean Water Act
Inspection Data Entry Form: 3560EZ

Inspector:	Alex Rosenberg	Date form completed:	6/19/2015

Section A: Facility Information						
Inspection start date:	6/20/2013	Inspection end date (if more than one day):	6/20/2013			
NPDES ID:	Enter text	Federal facility?	No			
Name and Location of Facility Inspected:						
Name:	City of Rockport					
Address:	Enter text					
City:	Rockport	State:	ME	ZIP:	04856	
Facility On-Site Representative #1:						
Name:	Mike Young					
Title:	Assistant Public Works Director					
Phone #:	207 236-6245	Fax # / email:	assistantpwd@town.rockport me.us			
Facility On-Site Representative #2 (if necessary):						
Name:	Bob Kennedy					
Title:	limnologist					
Phone #:	207-701-7010	Fax # / email:	bobkennedy@email.com			

Section B: Compliance Monitoring Information	
Clean Water Act Section (choose from only one of the following):	
CWA §308[A][B]: NPDES	Sanitary Sewer Overflows
CWA §311: Oil and Hazardous Substances	Choose an item
CWA §404: Permits for Dredge and Fill Material	Choose an item
Compliance Monitoring Type:	Reconnaissance
Compliance Monitoring Reason:	Core Program
If Agency Priority, then specify priority(s):	

OECA - CAFO	☐
OECA - CAFO Region Initiative Areas	☐
OECA - CSOs w/ < 50,000 service population	☐
OECA - CSOs w/ >= 50,000 service population	☐
OECA - MS4s Phase I	☐
OECA - MS4s Phase II	☐
Region 1 - Environmental Justice	☐
Region 1 - Green Economy / Green Infrastructure	☐
Region 1 - Industrial Laundries	☐
Region 1 - Lead Poisoning	☐
Region 1 - Municipal Infrastructure	☐
Region 1 - Pollution Prevention & Resource Conservation	☐

Region 1 - Ship / Boat Yards	☐
Region 1 - Wet Weather	☐

Compliance Monitoring Agency Type:	EPA
Was this a Joint Compliance Monitoring Activity?	No
Which party had the lead?	Choose an item or leave blank if N/A
If State lead, what was the purpose of EPA participation?	Choose an item or leave blank if N/A

Section C: ICDS Information	
Did you observe deficiencies (potential violations) during the inspection?	No
Potential excess emission in violation of regulations:	☐
Potential failure to… … complete or submit a notification, report, certification, or manifest:	☐
… follow a permit condition(s):	☐
… follow a required sample monitoring procedure or laboratory procedure:	☐
… follow or develop a required management practice or procedure:	☒
… identify and manage a regulated waste or pollutant in any media:	☒
… maintain a record or failure to disclose a document:	☐
… maintain/inspect/repair meters, sensors, and recording equipment:	☐
… obtain a permit, product approval, or certification:	☐
… report regulated events such as spills, accidents, etc.:	☐
Potential incorrect use of a material (pesticide, waste, product) or use of an unapproved material:	☐
Potential violation of a compliance schedule in an enforceable order:	☐
If you observed deficiencies, did you communicate the deficiencies to the Facility during the inspection?	No
If yes, did you observe the Facility take any actions during the inspection to address the deficiencies noted?	No
If yes, what actions were taken?	Choose an item
If the Facility reduced pollution, what pollutant was reduced?	Enter text
Did you provide general compliance assistance in accordance with the policy on the role of the EPA inspector in providing compliance assistance during inspections?	No
Did you provide site-specific compliance assistance in accordance with the policy on the role of the EPA inspector in providing compliance assistance during inspections?	No

Comments:

Did not contact city about recon. Plan is now to sample in two weeks after coordinating with the lab.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION I

DATE: August 5, 2013

SUBJ: MS4 Compliance Sampling Inspection
Town of Rockport, Maine

FROM: Erin Trainor, Inspector E. T. Trainor 8/5/2013

TO: File

REVIEWED BY: Alex Rosenberg 8/1/13

REQUESTED BY: Alex Rosenberg, OES

I. Background Information

A. Date, Time of inspection: Wednesday, June 26, 2013, 8:00 AM

B. Weather Conditions: Early morning fog, late morning sun, approximately 70 degrees F

C. USEPA Representatives: Erin Trainor
Alex Rosenberg

D. Site Representative(s): Mike Young
Town of Rockport
Assistant Public Works Director

Ted Skowronski
Town of Rockport
Conservation Commission

E. Address: Various locations along Pascal Ave. drainage system, Goodies Beach, Rockport Harbor, Goose River, and Lilly Pond.

II. Purpose of Inspection

The purpose of the inspection was to assist the Town of Rockport to determine whether the source of elevated bacteria levels contributing to frequent beach closures of Goodies Beach can be attributed to a human source. Samples were collected from thirteen (13) stormwater outfalls,

manholes, culverts and/or beach grabs in accordance with the Environmental Investigations and Analysis (EIA) unit Stormwater Program Plan.

III. Description of Sampling Locations

- Beach grab sample collected from Goodies Beach, identified as GB-1.
- Outfall located at Goodies Beach which discharges the Pascal Ave. drainage into Rockport Harbor, identified as PA-1.
- In-stream sample located along Goose River prior to entering Rockport Harbor, upstream of the bridge crossing, identified as GR-1.
- In-stream sample located along Lilly Pond drainage prior to entering Rockport Harbor, identified as LP-1.
- In-stream sample located along Winter Street, upstream of Mechanic Street crossing, identified as WS-1.
- Outfall which directs drainage from the west side of Pascal Ave. and to outfall PA-1, identified as PA-3.
- Outfall which directs drainage from the south side of Pascal Ave. and to outfall PA-1, identified as PA-4.
- Catch basin on east side of Pascal Ave. at the corner of Ship Street and Pascal Ave. which flows towards PA-4, identified as PA-4A.
- Catch basin on the west side of Pascal Ave. between Pleasant Street and West Street, which flows towards PA-4A, identified as PA-4B.
- Catch basin on the west side of Pascal Ave. at the corner of Pine Street and Pascal Ave., which flows towards PA-3B, identified as PA-3A.
- Catch basin on the west side of Pascal Ave. approximately 50 feet to the northeast of PA-3A which flows towards PA-3, identified as PA-3B.
- Culvert from wetland area which flows towards PA-4B, identified at PA-5.
- Culvert into wetland area, identified at PA-6.

IV. Inspection Observations and Findings

On Wednesday June 26, 2013, EPA inspectors Alex Rosenberg, and Erin Trainor conducted a Compliance Sampling Inspection (CSI) within the Town of Rockport, Maine at thirteen (13) locations along Pascal Ave. drainage system, Goodies Beach, Rockport Harbor, Goose River, and Lilly Pond.

The inspection started in Rockport at approximately 8:00 AM. At the time of the inspection, the weather was foggy turning to sunny, and approximately 70 degrees Fahrenheit. According to weather underground, approximately 3/4 inch of rain was reported within 24 hours of the inspection at the closest weather station located in Rockland, Maine.

The sampling locations described in Section III were field screened using test kits for ammonia, chlorine, and surfactants and analyzed for E.Coli and Enterococcus at Nelson Analytical located in Kennebunk, Maine, and pharmaceutical and personal care products (PPCPs) including: Atenolol, Acetaminophen, Cotinine, 1,7-Dimethylxanthine, Caffeine, Carbamazepine, and Metoprolol at the EPA New England Regional Laboratory (NERL). In-situ measurements for

conductivity, salinity, and temperature were also recorded. The following table summarizes the findings. Photographs are included.

End of Report

Attachments: Table 1: Summary of Rockport, ME MS4 Inspection – June 26, 2013

Photographs

Table 1: Summary of Rockport, ME MS4 Inspection – June 26, 2013

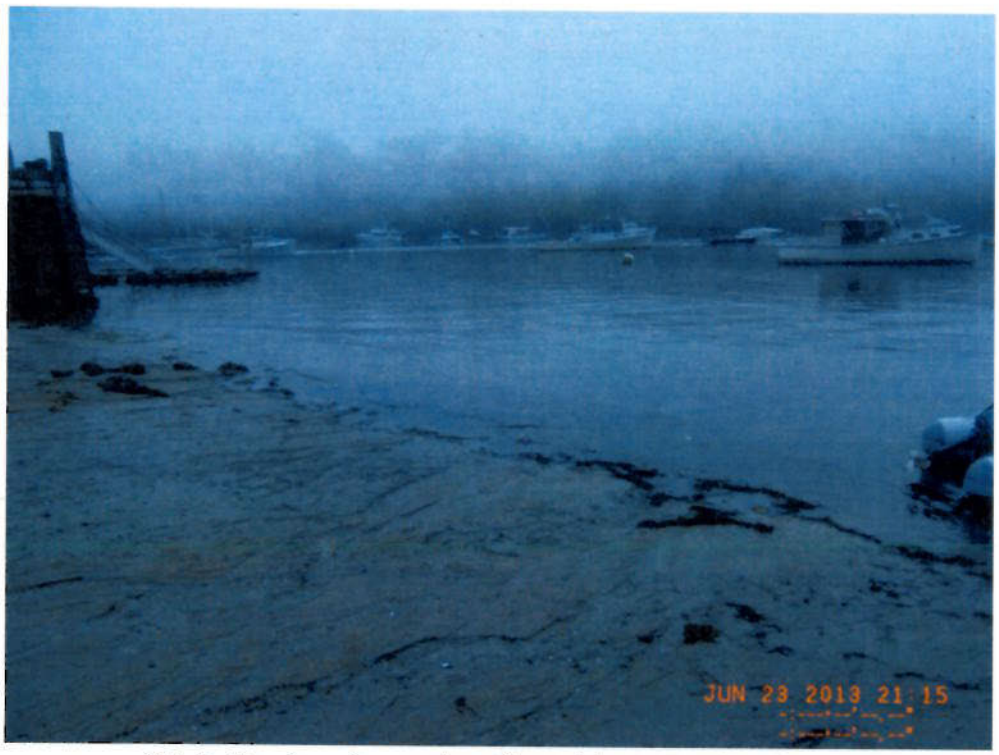
Sample ID	GB-1	PA-1	GR-1	LP-1	WS-1	PA-3
Time	08:30	08:35	08:55	09:30	09:45	10:05
Latitude/Longitude	44.18523085 N, 69.07425081 W	44.18511328 N, 69.07433481 W	44.18829829 N, 69.07513962 W	44.18683391 N, 69.071159 W	44.185795 N, 69.06998082 W	44.18508891 N, 69.075771 W
Description of Location	Beach grab sample collected from Goodies Beach.	Outfall located at Goodies Beach which discharges the Pascal Ave. drainage into Rockport Harbor.	In-stream sample located along Goose River prior to entering Rockport Harbor, upstream of the bridge crossing.	In-stream sample located along Lilly Pond drainage prior to entering Rockport Harbor.	In-stream sample located along Winter Street, upstream of Mechanic Street crossing.	Outfall which directs drainage from the west side of Pascal Ave. and to outfall PA-1.
Physical Observations	Sample collected from knee deep water.	Approx. flow 7-10 GPM.	Approx. flow >1000 GPM.	Approx. flow 150 GPM.		Drip from outfall.
Temperature, °C	17.7	16.0	22.0	21.2	16.3	21.5
Specific Conductivity, µS	27.4 (mS)	705	187	568	531	108.9
Salinity, ppt	16.3	0.1	0.1	0.3	0.3	0.0
Ammonia, mg/L	NA	0	0	0	0	0-0.25
Chlorine, mg/L	NA	0.05	0.04	0.09	NA	0.07
Surfactants, mg/L	NA	0.2	0.10	0.1	0.10	0.5
Atenolol, ng/l	ND	ND	ND	1.3	ND	ND
Acetaminophen, ng/l	1.4	ND	ND	1.0	3.2	11
Cotinine, ng/l	0.67	2.3	1.4	1.4	2.6	13
1,7-Dimethylxanthine, ng/l	ND	2.7	3.4	5.2	2.2	5.5
Caffeine, ng/l	16	17	17	22	26	23
Carbamazepine, ng/l	0.29	1.2	ND	ND	ND	0.61
Metoprolol, ng/l	ND	ND	ND	ND	ND	ND
E.Coli, MPN/100ml	63	1,203	556	78	1,553	727
Enterococcus, MPN/100ml	1,723	1,782	323	187	355	1,162

NA: Not analyzed ND: Not detected above reporting limit GPM: gallons per minute *: Qualified data, refer to laboratory report

Table 1: Summary of Rockport, ME MS4 Inspection – June 26, 2013, continued

Sample ID	PA-4	PA-4A	PA-4B	PA-3A	PA-3B	PA-5	PA-6
Time	10:10	10:53	10:45	11:10	11:18	11:40	11:55
Latitude/Longitude	44.18504771 N, 69.0757965 W	44.18440416 N, 69.07655121 W	44.18436461 N, 69.07678771 W	44.18506502 N, 69.0760977	44.18518967 N, 69.07598675 W	44.18458015 N, 69.07742135 W	44.18488954 N, 69.07779042 W
Description of Location	Outfall which directs drainage from the south side of Pascal Ave. and to outfall PA-1.	Catch basin on east side of Pascal Ave. at the corner of Ship Street and Pascal Ave. which flows towards PA-4.	Catch basin on the west side of Pascal Ave. between Pleasant Street and West Street, which flows towards PA-4A.	Catch basin on the west side of Pascal Ave. at the corner of Pine Street and Pascal Ave., which flows towards PA-3B.	Catch basin on the west side of Pascal Ave. approximately 50 feet to the northeast of PA-3A which flows towards PA-3.	Culvert from wetland area which flows towards PA-4B.	Culvert into wetland area which receives pumped drainage from catch basin at corner of Amesbury and Pleasant Street
Physical Observations	Suds observed.	Flow from PA-4B.	Flow approx. 100 GPM. Suds observed.	Low flow.	Low flow.	Flow approx 100 GPM. Duplicate sample collected.	12" corrugated plastic culvert. Partially submerged. No flow.
Temperature, °C	18.7	20.8	21.2	20.6	20.2	22.3	23.4
Specific Conductivity, µS	502	509	502	65	55.8	512	748
Salinity, ppt	0.2	0.2	0.2	0.2	0.0	0.2	0.4
Ammonia, mg/L	0	0	0	0	0	0	0
Chlorine, mg/L	0.13	0.06	0.09	0.07	0	0.07	0.11
Surfactants, mg/L	0.1	0.1	0.2	0.3	0.3	0.2	0.25
Atenolol, ng/l	ND	ND	ND	ND	ND	ND	ND
Acetaminophen, ng/l	ND	ND	ND	34	24	ND	6.8
Cotinine, ng/l	0.93	0.88	1.0	7.8	23	0.82	6.3
1,7-Dimethylxanthine, ng/l	4.0	2.5	ND	8.4	7.5	3.0	11
Caffeine, ng/l	6.1	10	7.5	44	32	12	16
Carbamazepine, ng/l	0.76	1.1	0.79	0.36	ND	0.91	1.7
Metoprolol, ng/l	ND	ND	ND	ND	ND	ND	ND
E.Coli, MPN/100ml	109	166	57	2,420	2,613	78	41
Enterococcus, MPN/100ml	2,098	272	181	10,462	12,033	35,041	585

NA: Not analyzed ND: Not detected above reporting limit GPM: gallons per minute *: Qualified data, refer to laboratory report



GB-1: Beach grab sample collected from Goodies Beach.

PA-1: Outfall located at Goodies Beach which discharges the Pascal Ave. drainage into Rockport Harbor.

GR-1: In-stream sample located along Goose River prior to entering Rockport Harbor, upstream of the bridge crossing.

LP-1: In-stream sample located along Lilly Pond drainage prior to entering Rockport Harbor.

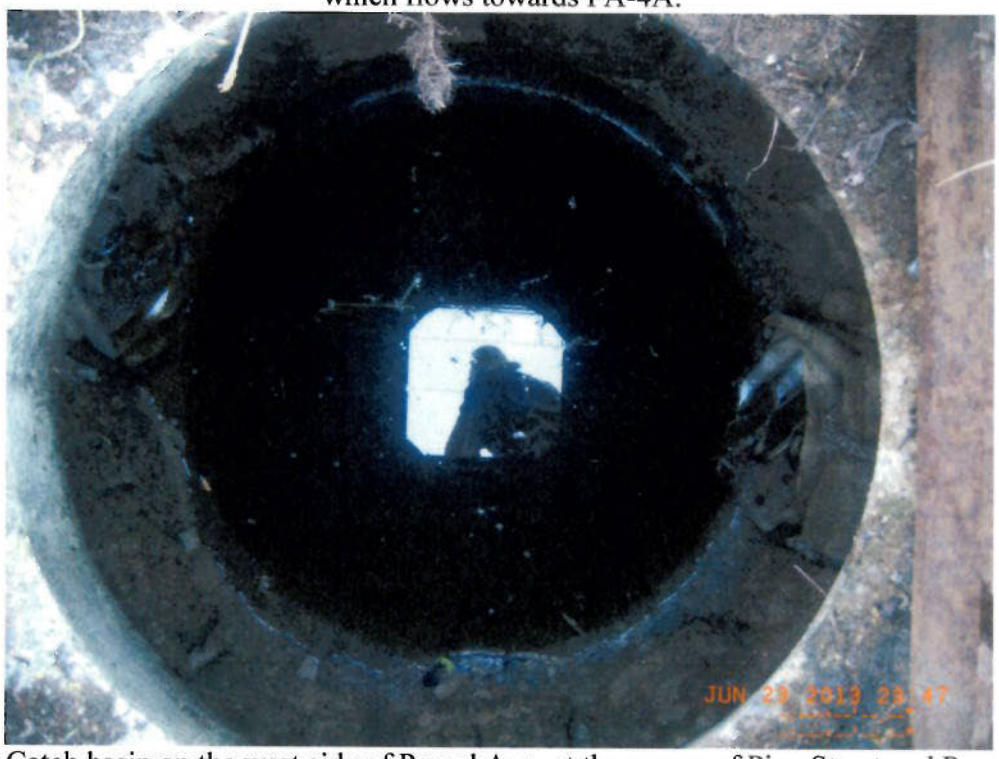
WS-1: In-stream sample located along Winter Street, upstream of Mechanic Street crossing.

PA-3: Outfall which directs drainage from the west side of Pascal Ave. and to outfall PA-1.

PA-4: Outfall which directs drainage from the south side of Pascal Ave. and to outfall PA-1.

PA-4A: Catch basin on east side of Pascal Ave. at the corner of Ship Street and Pascal Ave. which flows towards PA-4.

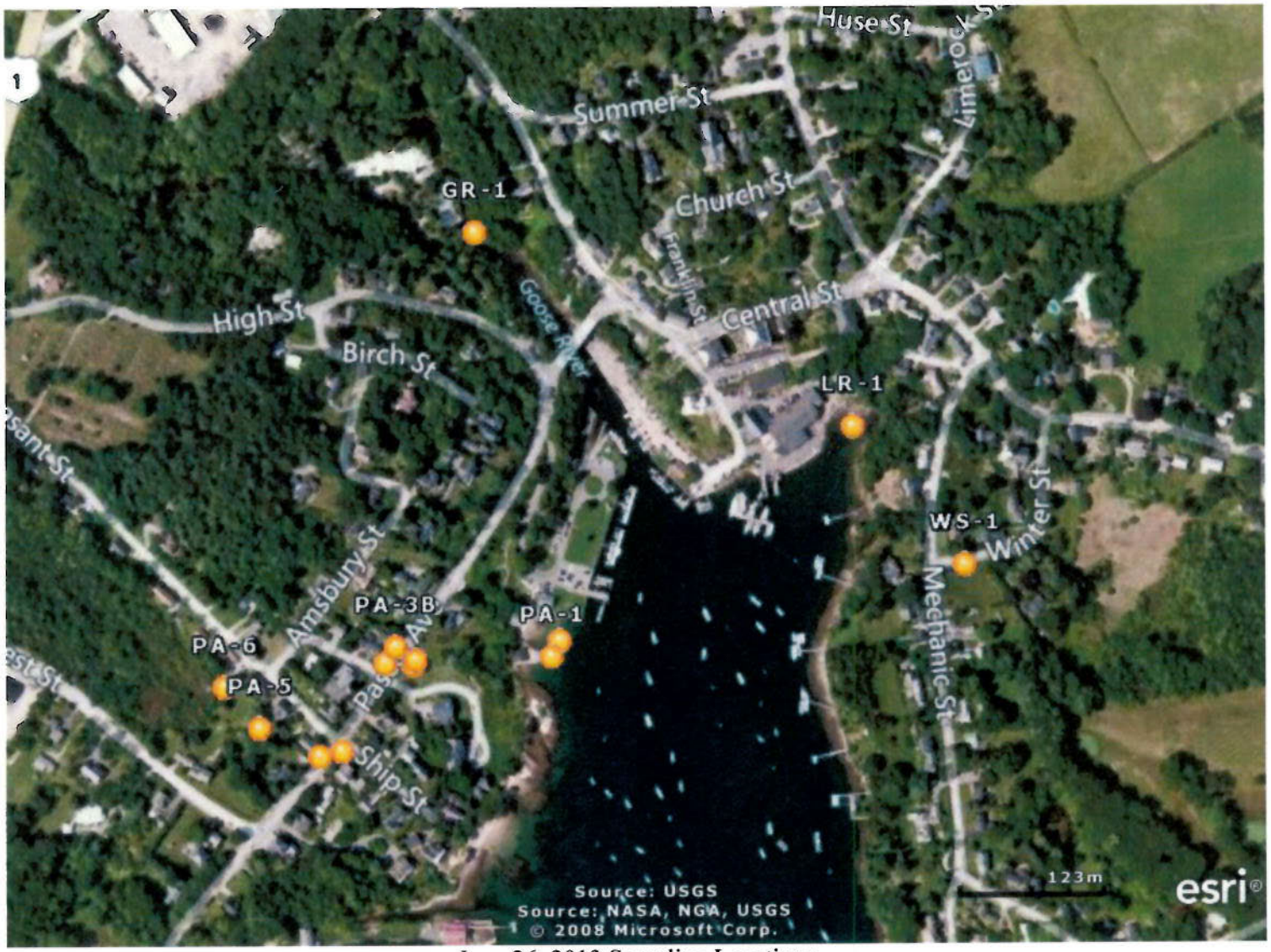
PA-4B: Catch basin on the west side of Pascal Ave. between Pleasant Street and West Street, which flows towards PA-4A.



PA-3A: Catch basin on the west side of Pascal Ave. at the corner of Pine Street and Pascal Ave., which flows towards PA-3B.

PA-3B: Catch basin on the west side of Pascal Ave. approximately 50 feet to the northeast of PA-3A which flows towards PA-3.

PA-5: Culvert from wetland area which flows towards PA-4B.

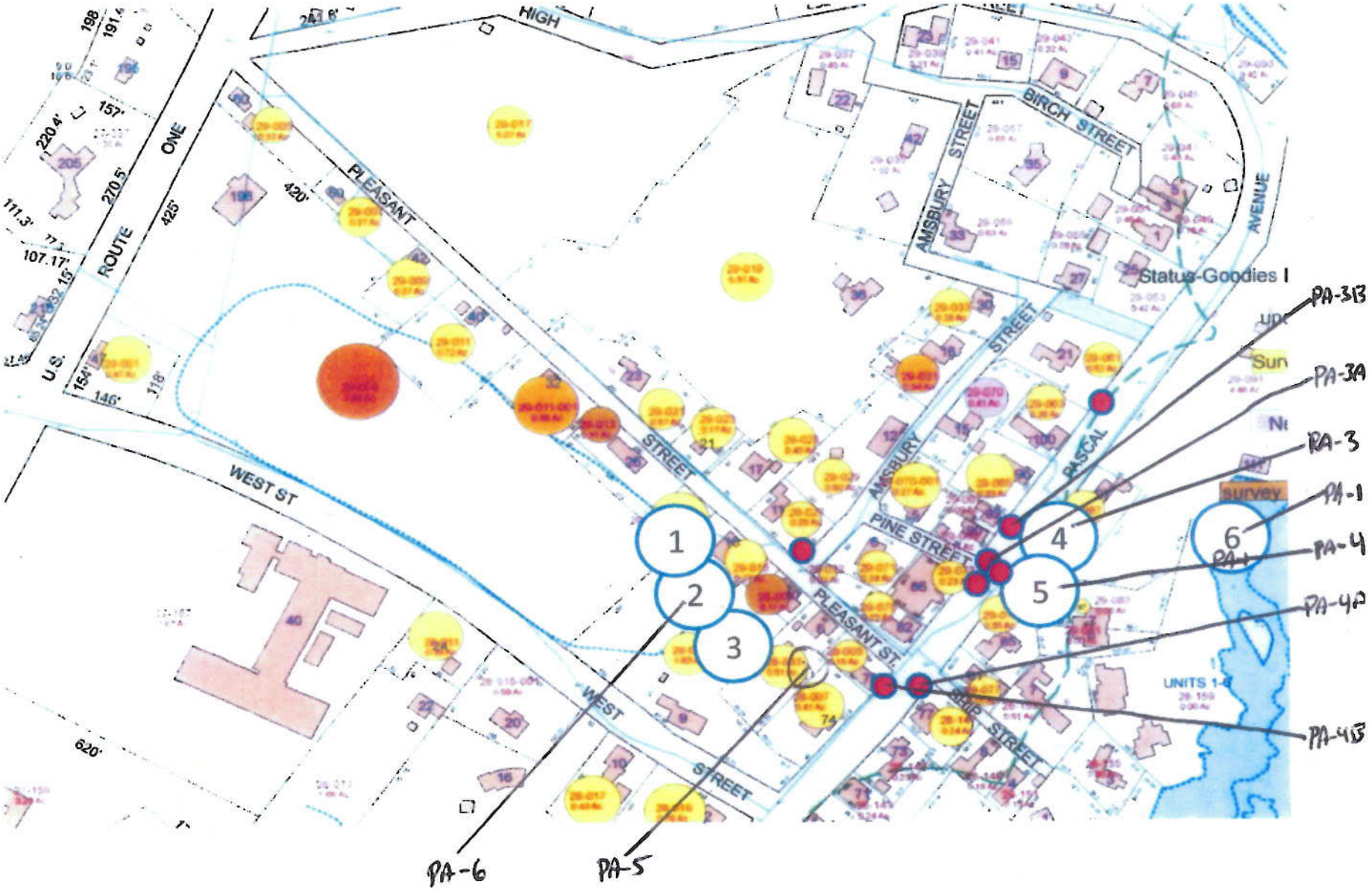


June 26, 2013 Sampling Locations

GR-1 Goose River
LP-1 Lily Pond
WS-1 Winter street
PA-& PAscal Avenue

8/26/13 Sample location and Nomenclature

Storm Water Catch Basin= ●



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION I

DATE: August 5, 2013

SUBJ: MS4 Compliance Sampling Inspection
Town of Rockport, Maine

FROM: Erin Trainor, Inspector 8/5/2013

TO: File

REVIEWED BY: Alex Rosenberg 8/1/13

REQUESTED BY: Alex Rosenberg, OES

I. Background Information

A. Date, Time of inspection: Wednesday, June 26, 2013, 8:00 AM

B. Weather Conditions: Early morning fog, late morning sun, approximately 70 degrees F

C. USEPA Representatives: Erin Trainor
Alex Rosenberg

D. Site Representative(s): Mike Young
Town of Rockport
Assistant Public Works Director

Ted Skowronski
Town of Rockport
Conservation Commission

E. Address: Various locations along Pascal Ave. drainage system, Goodies Beach, Rockport Harbor, Goose River, and Lilly Pond.

II. Purpose of Inspection

The purpose of the inspection was to assist the Town of Rockport to determine whether the source of elevated bacteria levels contributing to frequent beach closures of Goodies Beach can be attributed to a human source. Samples were collected from thirteen (13) stormwater outfalls,

manholes, culverts and/or beach grabs in accordance with the Environmental Investigations and Analysis (EIA) unit Stormwater Program Plan.

III. Description of Sampling Locations

- Beach grab sample collected from Goodies Beach, identified as GB-1.
- Outfall located at Goodies Beach which discharges the Pascal Ave. drainage into Rockport Harbor, identified as PA-1.
- In-stream sample located along Goose River prior to entering Rockport Harbor, upstream of the bridge crossing, identified as GR-1.
- In-stream sample located along Lilly Pond drainage prior to entering Rockport Harbor, identified as LP-1.
- In-stream sample located along Winter Street, upstream of Mechanic Street crossing, identified as WS-1.
- Outfall which directs drainage from the west side of Pascal Ave. and to outfall PA-1, identified as PA-3.
- Outfall which directs drainage from the south side of Pascal Ave. and to outfall PA-1, identified as PA-4.
- Catch basin on east side of Pascal Ave. at the corner of Ship Street and Pascal Ave. which flows towards PA-4, identified as PA-4A.
- Catch basin on the west side of Pascal Ave. between Pleasant Street and West Street, which flows towards PA-4A, identified as PA-4B.
- Catch basin on the west side of Pascal Ave. at the corner of Pine Street and Pascal Ave., which flows towards PA-3B, identified as PA-3A.
- Catch basin on the west side of Pascal Ave. approximately 50 feet to the northeast of PA-3A which flows towards PA-3, identified as PA-3B.
- Culvert from wetland area which flows towards PA-4B, identified at PA-5.
- Culvert into wetland area, identified at PA-6.

IV. Inspection Observations and Findings

On Wednesday June 26, 2013, EPA inspectors Alex Rosenberg, and Erin Trainor conducted a Compliance Sampling Inspection (CSI) within the Town of Rockport, Maine at thirteen (13) locations along Pascal Ave. drainage system, Goodies Beach, Rockport Harbor, Goose River, and Lilly Pond.

The inspection started in Rockport at approximately 8:00 AM. At the time of the inspection, the weather was foggy turning to sunny, and approximately 70 degrees Fahrenheit. According to weather underground, approximately 3/4 inch of rain was reported within 24 hours of the inspection at the closest weather station located in Rockland, Maine.

The sampling locations described in Section III were field screened using test kits for ammonia, chlorine, and surfactants and analyzed for E.Coli and Enterococcus at Nelson Analytical located in Kennebunk, Maine, and pharmaceutical and personal care products (PPCPs) including: Atenolol, Acetaminophen, Cotinine, 1,7-Dimethylxanthine, Caffeine, Carbamazepine, and Metoprolol at the EPA New England Regional Laboratory (NERL). In-situ measurements for

conductivity, salinity, and temperature were also recorded. The following table summarizes the findings. Photographs are included.

End of Report

Attachments: Table 1: Summary of Rockport, ME MS4 Inspection – June 26, 2013

Photographs

Table 1: Summary of Rockport, ME MS4 Inspection – June 26, 2013

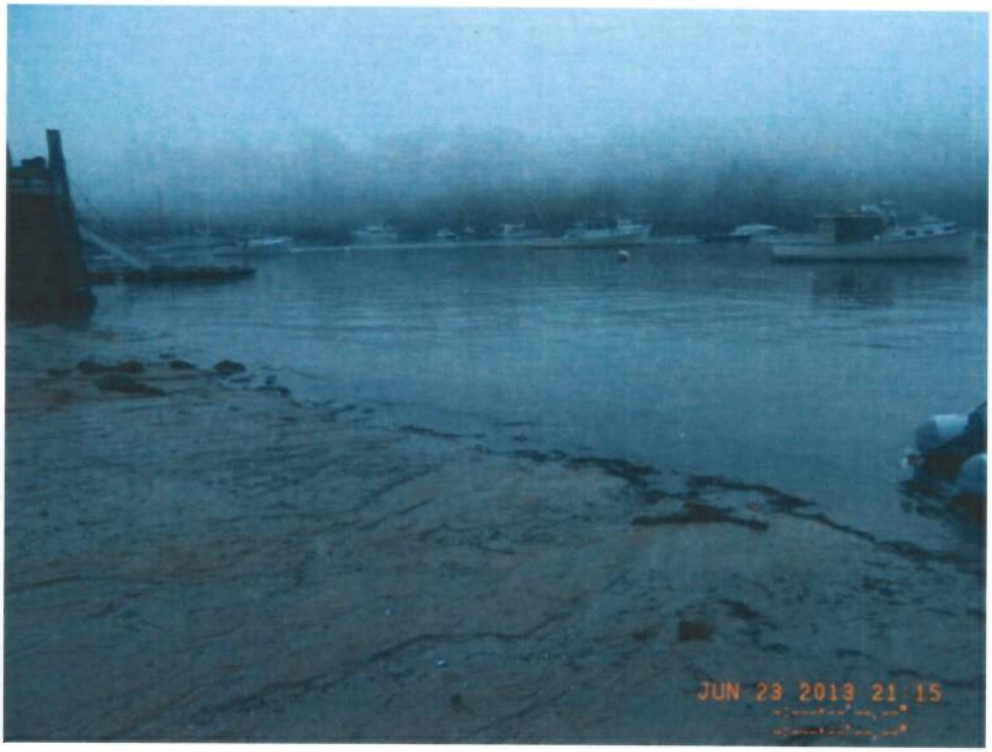
Sample ID	GB-1	PA-1	GR-1	LP-1	WS-1	PA-3
Time	08:30	08:35	08:55	09:30	09:45	10:05
Latitude/Longitude	44.18523085 N, 69.07425081 W	44.18511328 N, 69.07433481 W	44.18829829 N, 69.07513962 W	44.18683391 N, 69.071159 W	44.185795 N, 69.06998082 W	44.18508891 N, 69.075771 W
Description of Location	Beach grab sample collected from Goodies Beach.	Outfall located at Goodies Beach which discharges the Pascal Ave. drainage into Rockport Harbor.	In-stream sample located along Goose River prior to entering Rockport Harbor, upstream of the bridge crossing.	In-stream sample located along Lilly Pond drainage prior to entering Rockport Harbor.	In-stream sample located along Winter Street, upstream of Mechanic Street crossing.	Outfall which directs drainage from the west side of Pascal Ave. and to outfall PA-1.
Physical Observations	Sample collected from knee deep water.	Approx. flow 7-10 GPM.	Approx. flow >1000 GPM.	Approx. flow 150 GPM.		Drip from outfall.
Temperature, °C	17.7	16.0	22.0	21.2	16.3	21.5
Specific Conductivity, µS	27.4 (mS)	705	187	568	531	108.9
Salinity, ppt	16.3	0.1	0.1	0.3	0.3	0.0
Ammonia, mg/L	NA	0	0	0	0	0-0.25
Chlorine, mg/L	NA	0.05	0.04	0.09	NA	0.07
Surfactants, mg/L	NA	0.2	0.10	0.1	0.10	0.5
Atenolol, ng/l	ND	ND	ND	1.3	ND	ND
Acetaminophen, ng/l	1.4	ND	ND	1.0	3.2	11
Cotinine, ng/l	0.67	2.3	1.4	1.4	2.6	13
1,7-Dimethylxanthine, ng/l	ND	2.7	3.4	5.2	2.2	5.5
Caffeine, ng/l	16	17	17	22	26	23
Carbamazepine, ng/l	0.29	1.2	ND	ND	ND	0.61
Metoprolol, ng/l	ND	ND	ND	ND	ND	ND
E.Coli, MPN/100ml	63	1,203	556	78	1,553	727
Enterococcus, MPN/100ml	1,723	1,782	323	187	355	1,162

NA: Not analyzed ND: Not detected above reporting limit GPM: gallons per minute *: Qualified data, refer to laboratory report

Table 1: Summary of Rockport, ME MS4 Inspection – June 26, 2013, continued

Sample ID	PA-4	PA-4A	PA-4B	PA-3A	PA-3B	PA-5	PA-6
Time	10:10	10:53	10:45	11:10	11:18	11:40	11:55
Latitude/Longitude	44.18504771 N, 69.0757965 W	44.18440416 N, 69.07655121 W	44.18436461 N, 69.07678771 W	44.18506502 N, 69.0760977	44.18518967 N, 69.07598675 W	44.18458015 N, 69.07742135 W	44.18488954 N, 69.07779042 W
Description of Location	Outfall which directs drainage from the south side of Pascal Ave. and to outfall PA-1.	Catch basin on east side of Pascal Ave. at the corner of Ship Street and Pascal Ave. which flows towards PA-4.	Catch basin on the west side of Pascal Ave. between Pleasant Street and West Street, which flows towards PA-4A.	Catch basin on the west side of Pascal Ave. at the corner of Pine Street and Pascal Ave., which flows towards PA-3B.	Catch basin on the west side of Pascal Ave. approximately 50 feet to the northeast of PA-3A which flows towards PA-3.	Culvert from wetland area which flows towards PA-4B.	Culvert into wetland area which receives pumped drainage from catch basin at corner of Amesbury and Pleasant Street
Physical Observations	Suds observed.	Flow from PA-4B.	Flow approx. 100 GPM. Suds observed.	Low flow.	Low flow.	Flow approx 100 GPM. Duplicate sample collected.	12" corrugated plastic culvert. Partially submerged. No flow.
Temperature, °C	18.7	20.8	21.2	20.6	20.2	22.3	23.4
Specific Conductivity, µS	502	509	502	65	55.8	512	748
Salinity, ppt	0.2	0.2	0.2	0.2	0.0	0.2	0.4
Ammonia, mg/L	0	0	0	0	0	0	0
Chlorine, mg/L	0.13	0.06	0.09	0.07	0	0.07	0.11
Surfactants, mg/L	0.1	0.1	0.2	0.3	0.3	0.2	0.25
Atenolol, ng/l	ND	ND	ND	ND	ND	ND	ND
Acetaminophen, ng/l	ND	ND	ND	34	24	ND	6.8
Cotinine, ng/l	0.93	0.88	1.0	7.8	23	0.82	6.3
1,7-Dimethylxanthine, ng/l	4.0	2.5	ND	8.4	7.5	3.0	11
Caffeine, ng/l	6.1	10	7.5	44	32	12	16
Carbamazepine, ng/l	0.76	1.1	0.79	0.36	ND	0.91	1.7
Metoprolol, ng/l	ND	ND	ND	ND	ND	ND	ND
E.Coli, MPN/100ml	109	166	57	2,420	2,613	78	41
Enterococcus, MPN/100ml	2,098	272	181	10,462	12,033	35,041	585

NA: Not analyzed ND: Not detected above reporting limit GPM: gallons per minute *: Qualified data, refer to laboratory report



GB-1: Beach grab sample collected from Goodies Beach.

PA-1: Outfall located at Goodies Beach which discharges the Pascal Ave. drainage into Rockport Harbor.

GR-1: In-stream sample located along Goose River prior to entering Rockport Harbor, upstream of the bridge crossing.

LP-1: In-stream sample located along Lilly Pond drainage prior to entering Rockport Harbor.

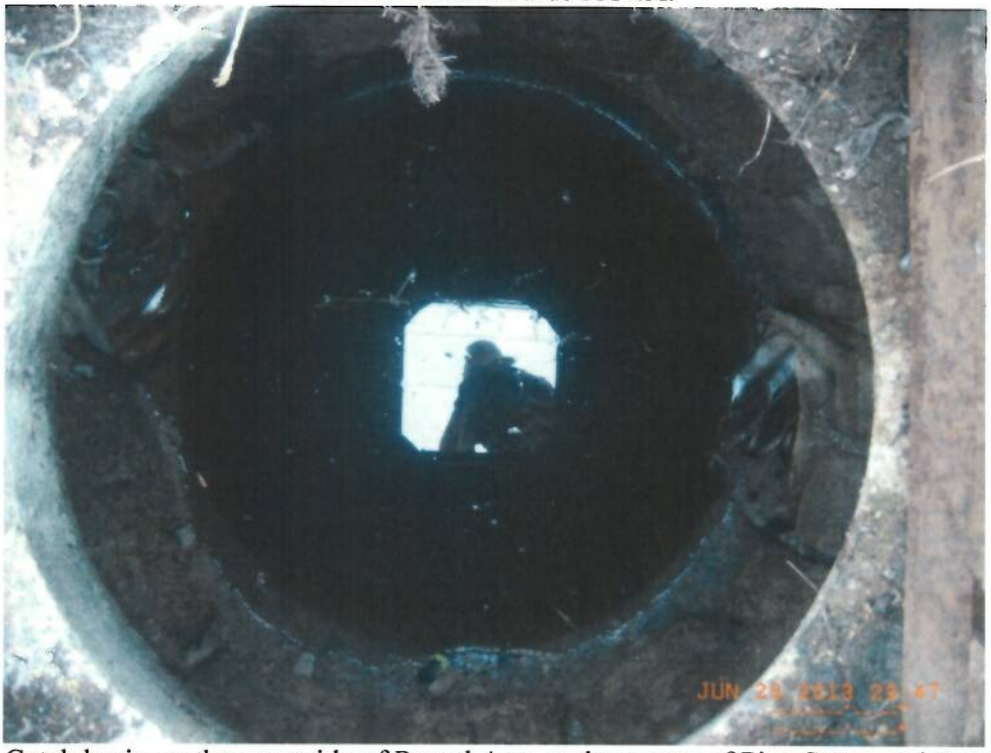
WS-1: In-stream sample located along Winter Street, upstream of Mechanic Street crossing.

PA-3: Outfall which directs drainage from the west side of Pascal Ave. and to outfall PA-1.

PA-4: Outfall which directs drainage from the south side of Pascal Ave. and to outfall PA-1.

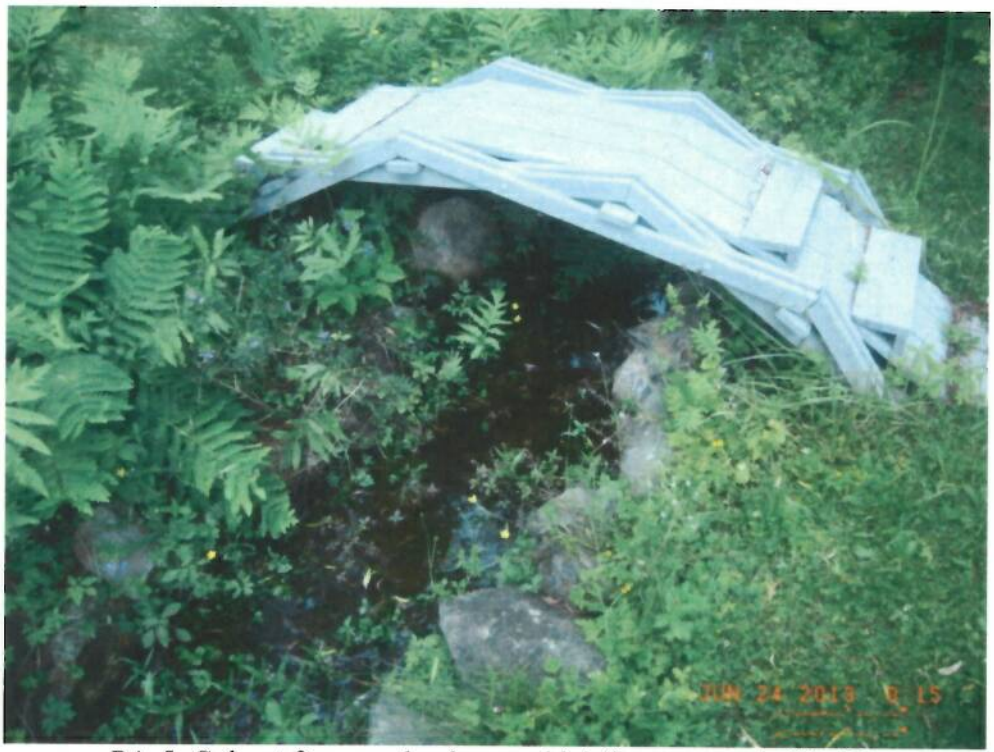
PA-4A: Catch basin on east side of Pascal Ave. at the corner of Ship Street and Pascal Ave. which flows towards PA-4.

PA-4B: Catch basin on the west side of Pascal Ave. between Pleasant Street and West Street, which flows towards PA-4A.



PA-3A: Catch basin on the west side of Pascal Ave. at the corner of Pine Street and Pascal Ave., which flows towards PA-3B.

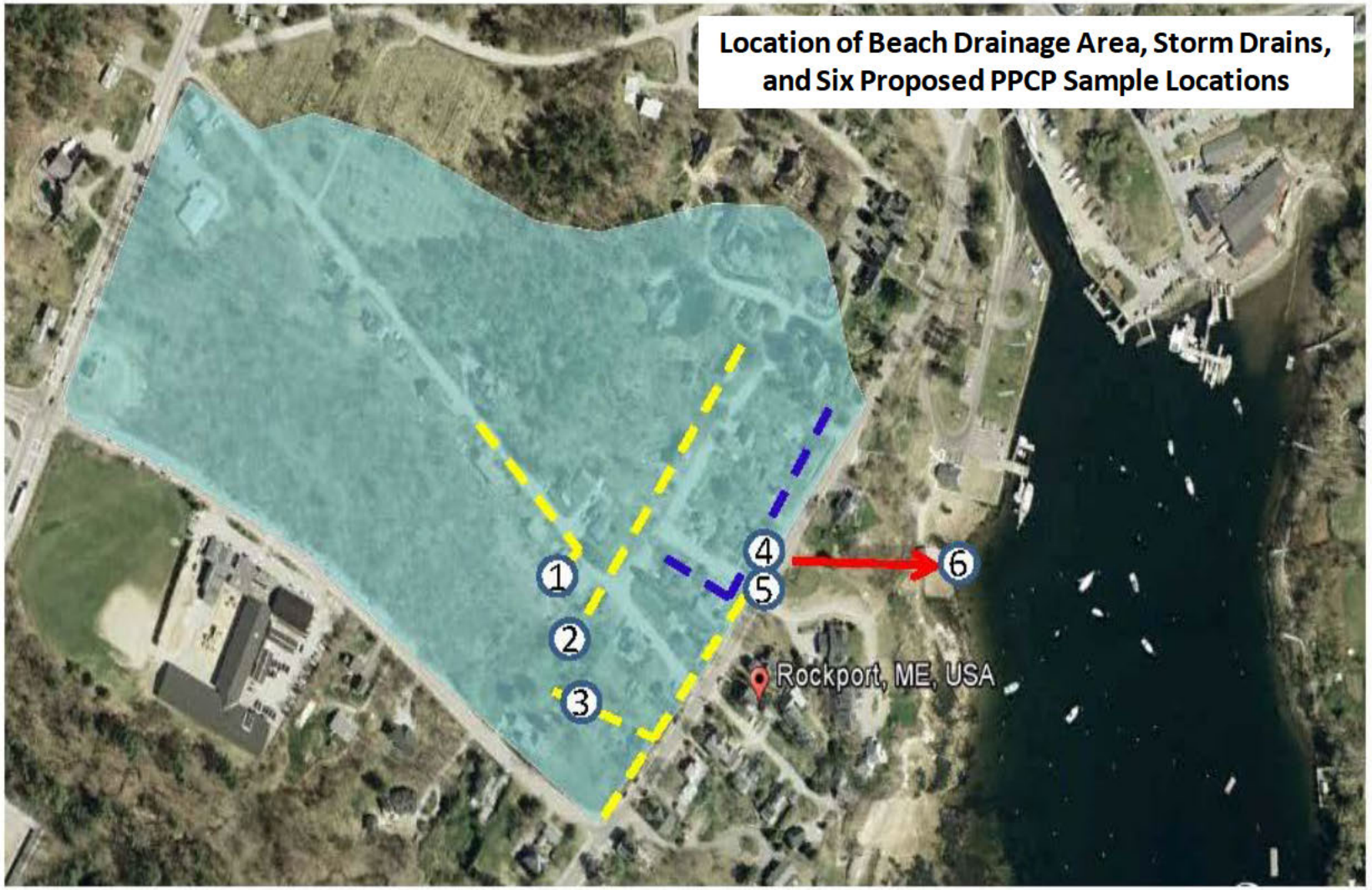
PA-3B: Catch basin on the west side of Pascal Ave. approximately 50 feet to the northeast of PA-3A which flows towards PA-3.



PA-5: Culvert from wetland area which flows towards PA-4B.

PA-6: Culvert into wetland area.

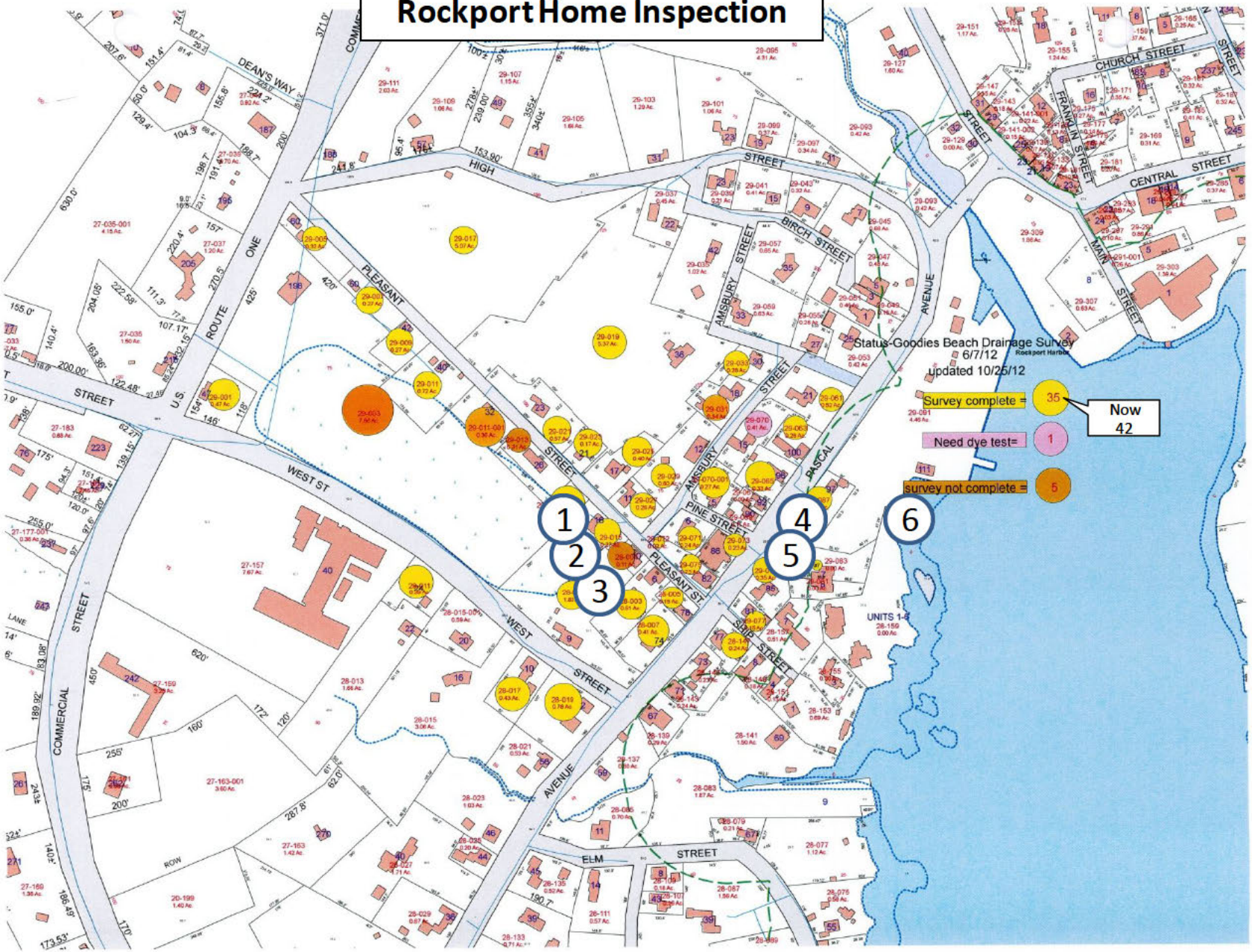
June 26, 2013 Sampling Locations



Site 1 – Storm drainage from Pleasant Street
Site 2 – Storm drainage from Amesbury Hill
Site 3 – Drainage from wetland complex (which also receives from 1 & 2

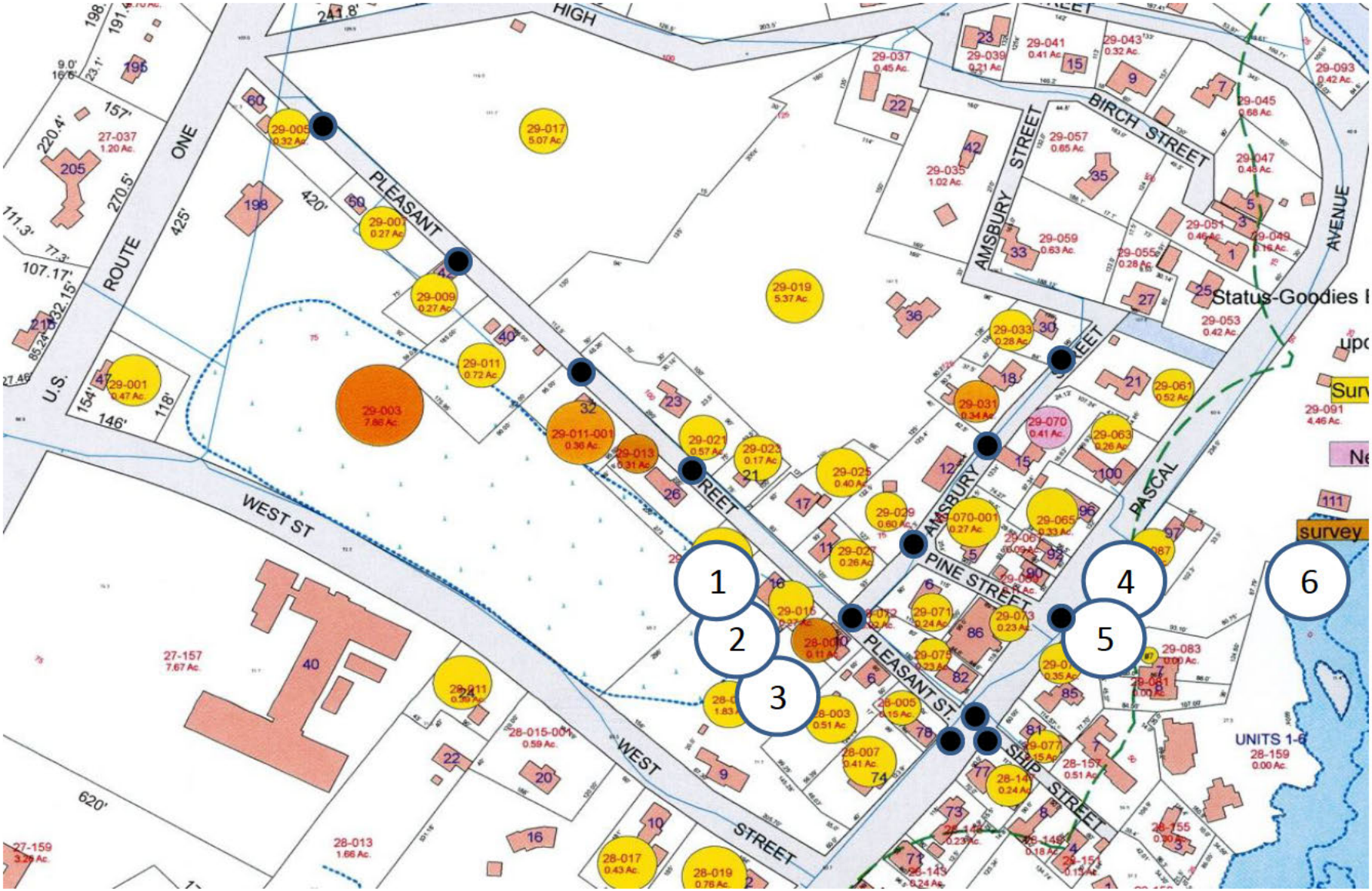
Site 4 – Storm drainage from north Pascal Ave and Pine Street
Site 5 – Storm drainage from south Pascal Ave and 3
Site 6 – Beach drain (receives flows from 4 & 5

Rockport Home Inspection



Rockport Sanitary Sewers

Sanitary Sewer Manholes = ●



Storm Water Catch Basin= ●